

Utah Facility Online Reporting System: From HAIRS to UFORS – the Evolution of a Reporting System

Felicia Alvarez, MPH,
Richard Kurzban, BS
Iona Thraen, ACSW





Need for Utah Facility Online Reporting System (UFORS)

- Initially
 - Reporting site for Healthcare-associated infections (HAI)
 - HAIRS
- Evolved
 - Include Patient Safety Sentinel Event Reporting
 - UFORS



Need for HAIRS

- Healthcare associated infections (HAI) are a major public health problem in the US.
- Annually
 - Estimated 2 million HAIs
 - Over 90,000 hospital patients die
 - Economic cost of HAIs in 2002 was \$6.7 billion per year



Creating HAIRS

- Effort initiated by public health
- Partnership between public health, patient safety committee, and Infection Control Practitioners (ICP's)
 - Determined administrative data is not good data for capturing HAIs
 - HAI Work Group (HAIWG) established
 - Comprised of various healthcare experts



Creating HAIRS.

- Involved >18 months of discussion to resolve key issues such as terminologies, what to report, and to what degree
- HAIWG determined to start with two HAI issues
 - Central Line Associated Blood Stream Infections (CLA-BSI)
 - Influenza vaccination rates in healthcare workers.
- HAIWG was directly involved in development of a State Rule to address HAIs
 - Enabled industry-wide collaboration

Reporting Requirement

- HAI Rule: R386-705
 - UDOH shall require that hospitals report the total number of employees who have received an influenza vaccination
 - UDOH shall require that hospitals report the number of central line patient days and the total number of CLA-BSI identified in any ICU caring for patients greater than or equal to 1 year of age

HAIWG Helpful Tools...

- Central Line Days Worksheet
- CLA-BSI Line List Worksheet
- Algorithm and Flow Chart
- HAIRS Manual

ICU Central Line Days Worksheet

Month _____ Year _____

Check type of ICU: ☐ Coronary ☐ Medical ☐ Surgical ☐ Medical/Surgical
☐ Pediatric ☐ Neurosurgical ☐ Trauma ☐ Burn ☐ Other: _____

Date	Number of patients with central line(s)*
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	
Total	

* Patients with more than one central line are to counted as **one** line day

CLA-BSI Line List Worksheet

When reporting to the HAIRS website, do not report the patient name or MRN.

<https://health.utah.gov/epi/hairs/>

[illegible]

Algorithm for CLA- BSI Surveillance

January 18, 2008

Positive blood culture (BC) from patient in a monitored ICU

YES

ICU ASSOCIATED RULE: Determine if nosocomial to monitored ICU

YES: If ≥ 2 days of admit to ICU OR during ICU stay OR ≤ 2 days after ICU discharge

YES - ICU associated

INFECTION vs CONTAMINANT RULE: Determine if BC represents true infection (true BSI):

For isolate that is true pathogen (eg, isolate is not common skin commensal) need to meet the flowing criteria:

True BSI: YES if at least one set of BC positive.

For isolate that is common skin commensal (CoNS, corynebacterium, propionibacterium, diphtheroids, bacillus, micrococcus): need to meet the following criteria:

True BSI: YES if two or more sets of BC positive within a 2 day period.

OR

True BSI: YES if only one set of positive BC within a 2 day period AND an antibiotic to treat a common skin commensal is initiated within one day of culture collection AND patient treated > 3 days after initiation of antibiotic.

YES - ICU-associated true BSI

NO- not ICU-associated true BSI

Stop

PRIMARY SOURCE RULE: Determine if true BSI is primary or secondary to another source.

Primary: For true BSI with a true pathogen: YES if there is no other culture positive source with the same organism as the BC from 3 days before to 7 days after positive BC

or

For true BSI with a common skin commensal: YES if there is no other culture positive source with the same organism as the BC, obtained from a normally sterile site, from 3 days before to 7 days after positive BC

Secondary: If the answer to the primary source rule for a pathogen or common skin commensal is NO, then the BSI is considered secondary.

Sources that are NOT to be considered in evaluation, and thus are excluded:

Surveillance cultures (used to detect colonized state); are not considered to be clinical cultures)

Catheter tips (not all hospitals have ability to perform)

Yeast in a respiratory source

Common skin commensals from a non-sterile body site

YES- primary ICU-associated true BSI

NO- secondary ICU-associated true BSI

Stop

EPISODE RULE: Determine if BSI is new episode (episode lasts 5 days starting at time of 1st "true" positive BC)

New Episode: YES if this is the first ICU associated "true" positive BC

OR

New Episode: YES if a "new" organism AND > 5 days from first positive BC of prior episode

OR

New Episode: YES if "same" organism(s) AND > 30 days from first positive BC of prior episode

Note: an episode is called "mixed" if multiple organisms are isolated from different blood cultures over a 5-day period. Assign "mixed" episode as secondary if any of the BC organisms identified in the episode fall under the secondary rule.)

Note: repeatedly positive cultures with same organism within 30 days are considered duplicates.

YES- new primary ICU-associated BSI episode

YES- ICU associated mixed BSI episode

NO- BSI not new episode

Stop

CVC RULE: Determine if CVC in place (IJ, SC, PA cath, Broviac, Hickman, Port-a-Cath, PICC, Udall, etc)

YES: If CVC was in place ≥ 2 days or 48 hours prior to the first positive BC of an episode

YES

NO

ICU ASSOCIATED CLA-BSI EPISODE (UDOH Reportable)

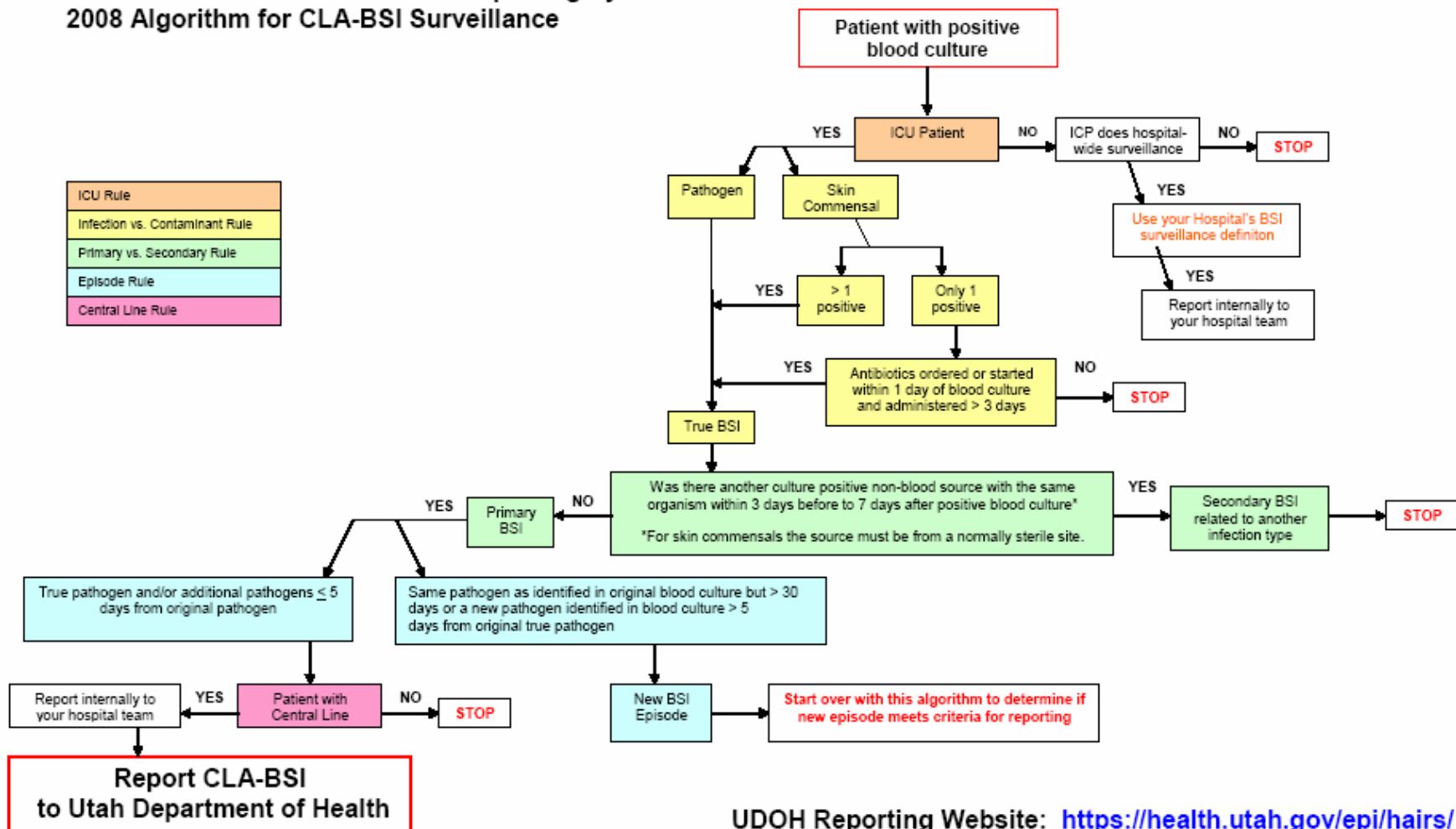
ICU associated primary BSI episode

Algorithm

Utah Department of Health
Healthcare Associated Infection Reporting System
2008 Algorithm for CLA-BSI Surveillance

January 18, 2008

ICU Rule
Infection vs. Contaminant Rule
Primary vs. Secondary Rule
Episode Rule
Central Line Rule



UDOH Reporting Website: <https://health.utah.gov/epi/hairs/>

Flow Chart

HAIRS Manual

- Manual created and used during video-teleconference trainings.
- Covered all aspects of HAI reporting system



**Healthcare Associated
Infections/Influenza Reporting System**

HAIRS

**In Collaboration with:
Utah Hospital Association
Rocky Mountain Infection Control Association
Utah Department of Health**

January 2008

This manual may be reproduced and distributed without permission.

Suggested Citation:

Utah Department of Health Bureau of Epidemiology. (2008). *Healthcare Associated Infections-Influenza Reporting System* (2008). Salt Lake City, UT: Utah Department of Health.

Main Database View

- Main page menu and left side navigation differs depending on user access rights

The screenshot shows a web browser window titled "Bureau of Epidemiology - Utah Facility Reporting System - Menu - Windows Internet Explorer". The address bar displays "https://health.utah.gov/epi/hairs/pub/menu.php". The browser's menu bar includes File, Edit, View, Favorites, Tools, and Help. The toolbar contains various icons for navigation and utility. The main content area is titled "Utah Facility Reporting System" and contains the following text:

Welcome to the
Utah Facility Reporting System
for
Healthcare Associated Infection Reporting System
and
Patient Safety Sentinel Event Reporting

Felicia Alvarez

**Please click on the menu selection
you wish to report:**

Central Line Days
CLA-BSI
Influenza Vaccination Rates

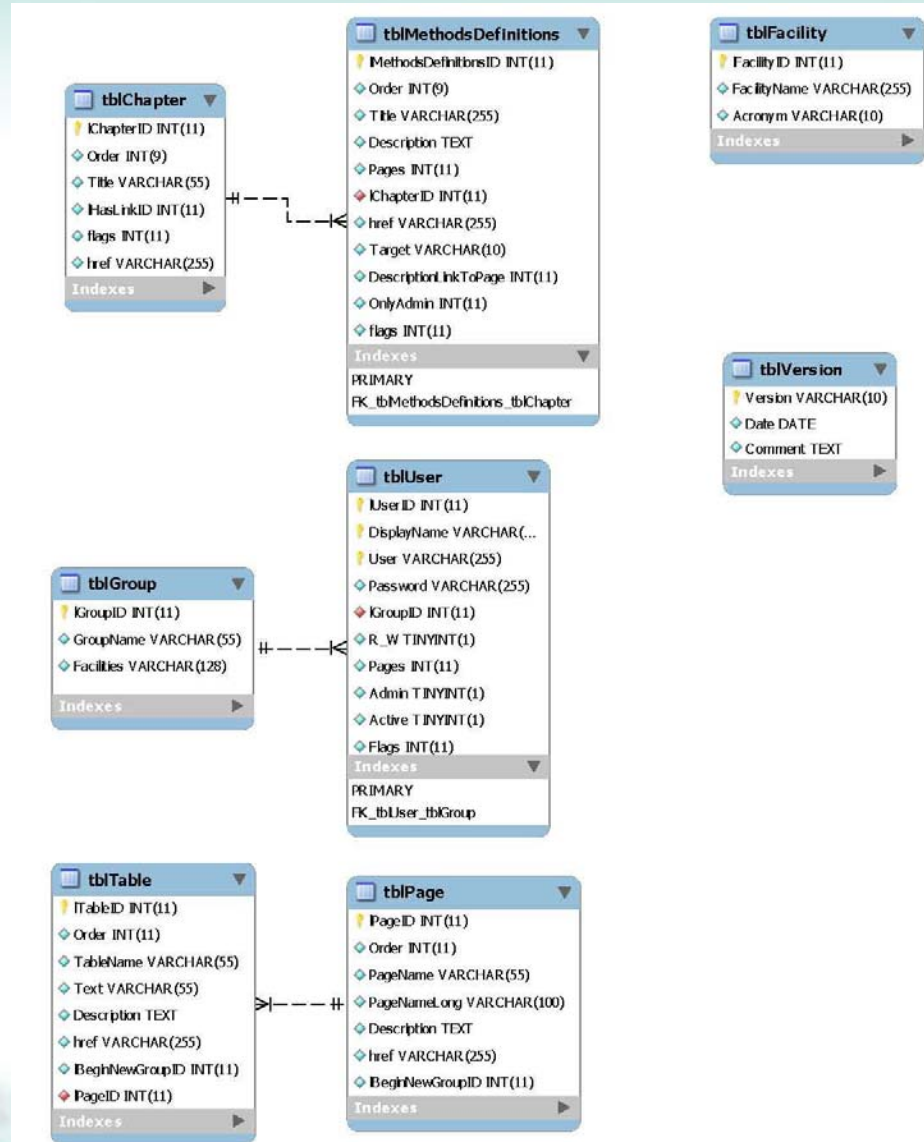
Site Last Updated on May 13, 2008

The left sidebar contains a navigation menu with the following items:

- Log Off
- Main Menu
- Central Line Days
- Central Line Associated - Blood Stream Infections
- Influenza Vaccination Rates
- Definitions
 - Central Line Day
 - CLA-BSI
 - Intensive Care Unit (ICU)
 - Disagree with the surveillance definitions
 - Comments
 - First Culture Positive Date
 - ICU Type
 - Report ID
- Algorithms
 - CLA_BSI
 - CLA-BSI Line List Worksheet
 - CLD Worksheet
 - Flow Chart Algorithm CLA-BSI
- FAQ
 - Flu FAQ
 - CLA-BSI FAQ
- Questions/Comments
- Admin Menu

Main Database Matrix

- Lean and Agile Software Development
- tblPage and tblFacility 2^ⁿ index
- User have rights to a Group
- Group has access to Facility(s)
- Help and Information
- Administrator Mode
- Open Source
 - PHP
 - MySql



Central Line Days-Database View

- Drop down menu allows user to choose ICU type and month reported

Bureau of Epidemiology - Add Central Line Days - Windows Internet Explorer

https://health.utah.gov/epi/hairs/pub/CentralLineDays.php?recordID=0

File Edit View Favorites Tools Help

Google Go Bookmarks 21 blocked Check AutoLink AutoFill Send to Settings

Bureau of Epidemiology - Add Central Line Days

Healthcare Associated Infection Reporting System

Add Central Line Days Test 1

Month: Q3 Aug 08

Total Number of CL Days per Period:

ICU Type	CL Days per ICU	No CLA-BSI identified this month
Burn		<input type="checkbox"/>
Coronary		<input type="checkbox"/>
Medical		<input type="checkbox"/>
Medical/Surgical		<input type="checkbox"/>
Neurosurgical		<input type="checkbox"/>
Pediatric		<input type="checkbox"/>
Respiratory		<input type="checkbox"/>
Surgical		<input type="checkbox"/>
Thoracic		<input type="checkbox"/>
Trauma		<input type="checkbox"/>


The type of ICU is determined by the service designation of the majority of patients cared for by the unit (ie, if the majority of the patients are on a certain service [eg, general surgery], then the ICU is designated as that type of unit [eg, surgical ICU]. An ICU with approximately equal numbers of medical and surgical patients is designated as a combined medical/surgical ICU.

Update Report Reset Report

Site Last Updated on May 13, 2008

UDOH Home | Contact UDOH | About UDOH | UDOH A-Z Index | UDOH Use Disclaimer | UDOH Privacy Policy | Utah.gov Accessibility Policy
Copyright © Utah Department of Health ~ State of Utah ~ All rights reserved.

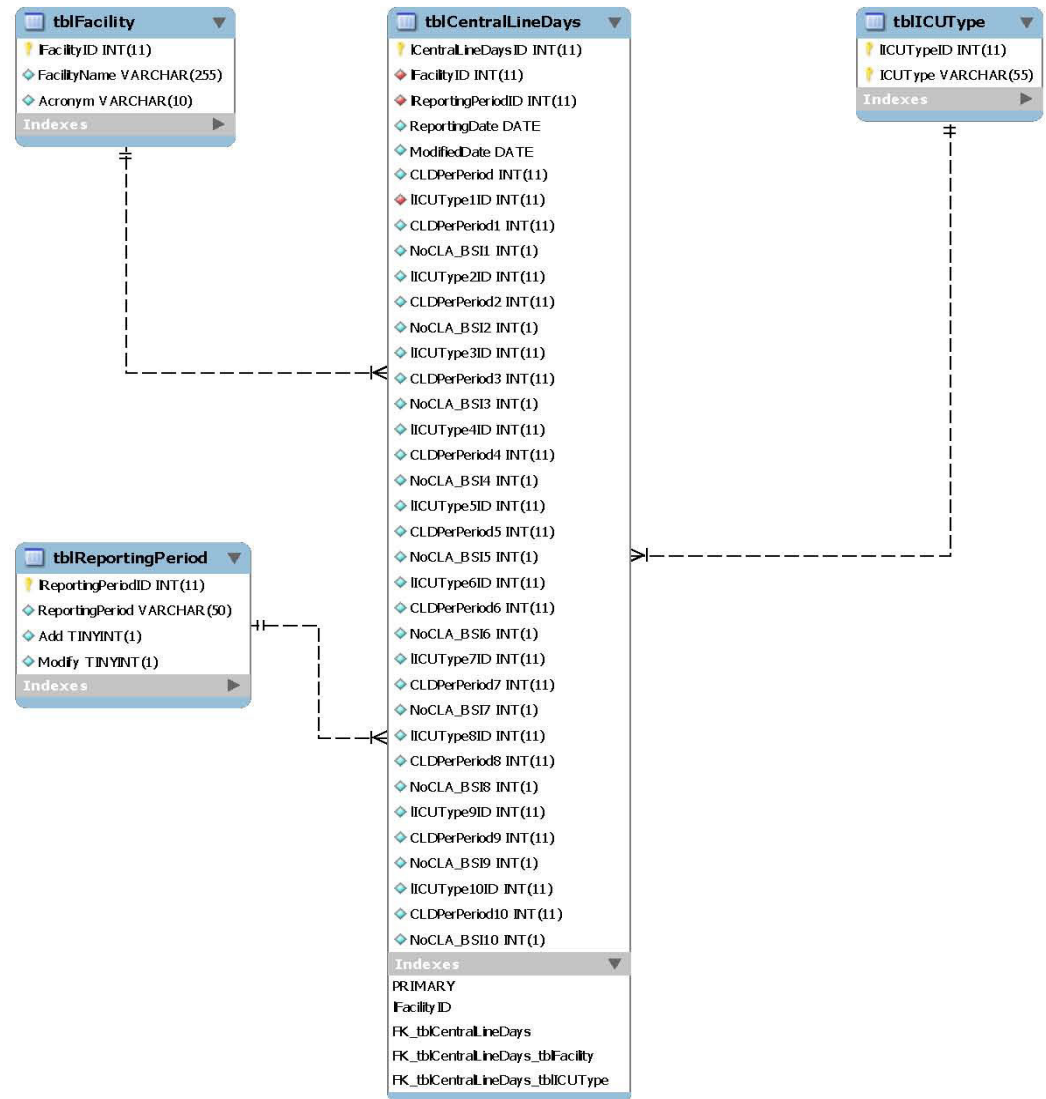
Done Internet 100%



Utah
Department
of Health

Central Line Days-Database Matrix

- All drop downs are saved in database
- Drop downs configured by user
- User can enable add or modify by date



CLA-BSI-Database View

- User has pull down and calendar menu options to auto-populate fields
- Comment field for free text

Bureau of Epidemiology - Add CLA-BSI - Windows Internet Explorer

https://health.utah.gov/epi/hairs/pub/CentralLineAssociated.php?recordID=0

File Edit View Favorites Tools Help

Google G Go 21 blocked Check AutoLink AutoFill Send to Settings

Bureau of Epidemiology - Add CLA-BSI

Healthcare Associated Infection Reporting System

Add CLA-BSI Test 1

Log Off
Main Menu
Central Line Days
Central Line Associated - Blood Stream Infections
Influenza Vaccination Rates
Definitions
Central Line Day
CLA-BSI
Intensive Care Unit (ICU)
Disagree with the surveillance definitions
Comments
First Culture Positive Date
ICU Type
Report ID
Algorithms
CLA_BSI
CLA-BSI Line List
Worksheet
CLD Worksheet
Flow Chart Algorithm CLA-BSI
FAQ
Flu FAQ
CLA-BSI FAQ
Questions/Comments

Reporting ID: 3
ICU Type:
First Culture Positive Date: mm/dd/yyyy
Microbial Resistance

Organ
Organ
Organ
Organ
Organ
Case Algorithm:
Comments: (Be Concise)
Update Report Reset Report

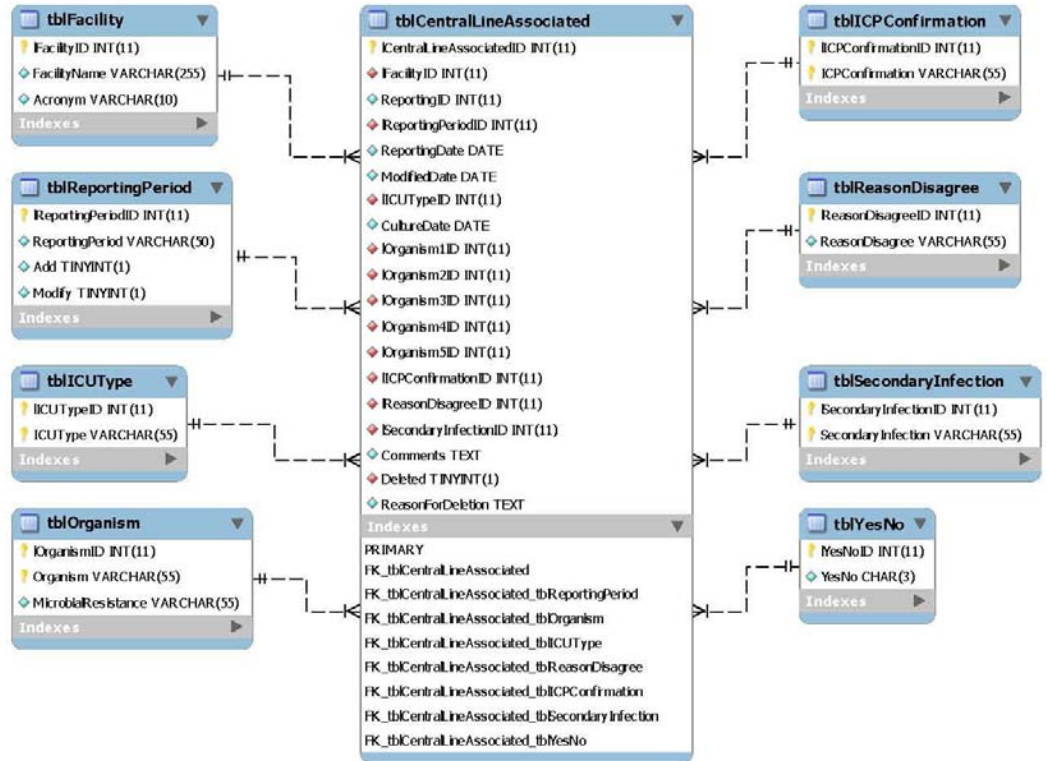
Site Last Updated on May 13, 2008

UDOH Home | Contact UDOH | About UDOH | UDOH A-Z Index | UDOH Use Disclaimer | UDOH Privacy Policy | Utah.gov Accessibility Policy
Copyright © Utah Department of Health ~ State of Utah ~ All rights reserved.

Internet 100%

CLA-BSI-Database Matrix

- All drop down are saved in database
- Drop downs configured by user
- User can enable add or modify by date
- Fields will display depending on response



Influenza-Database View

- User enters numbers for fields
- Rate automatically calculated
- User can enable add or modify by year

Bureau of Epidemiology - Add Influenza Vaccination Rates - Windows Internet Explorer

https://health.utah.gov/epi/hairs/pub/InfluenzaVaccinationRates.php?recordID=0

File Edit View Favorites Tools Help

Google Go

Bureau of Epidemiology - Add Influenza Vaccination R...

Utah Facility Reporting System

Add Influenza Vaccination Rates Test 1

2007-2008 Influenza Season

Number of all employed healthcare workers:

Number of all healthcare workers with documented vaccination:

Optional Entry

Number of all unvaccinated healthcare workers refusing vaccination:

Site Last Updated on May 13, 2008

Log Off

Main Menu

Central Line Days

Central Line Associated - Blood Stream Infections

Influenza Vaccination Rates

Definitions

- Central Line Day
- CLA-BSI
- Intensive Care Unit (ICU)
- Disagree with the surveillance definitions
- Comments
- First Culture Positive Date
- ICU Type
- Report ID

Algorithms

- CLA_BSI
- CLA-BSI Line List Worksheet
- CLD Worksheet
- Flow Chart Algorithm CLA-BSI

FAQ

- [Flu FAQ](#)
- [CLA-BSI FAQ](#)

Frequently asked questions about the influenza reporting site.

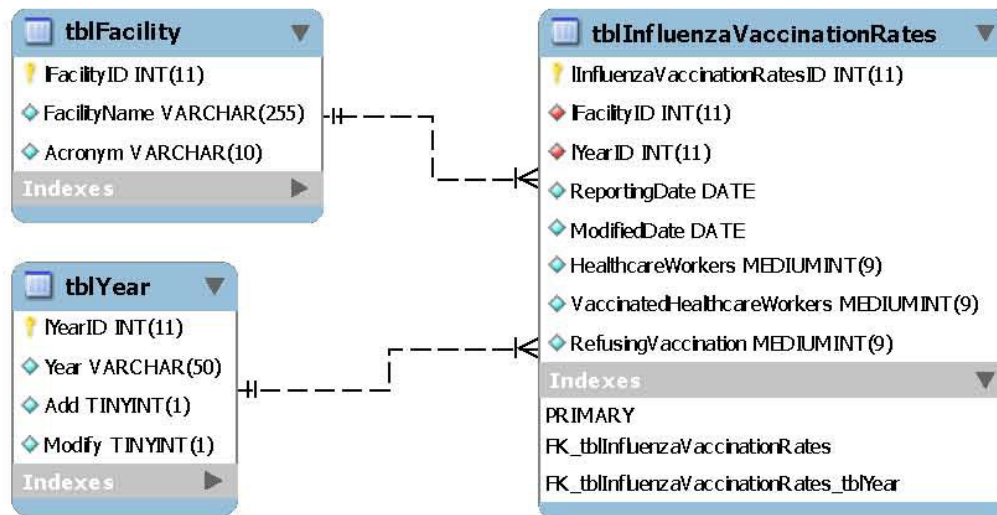
Questions/Comments

https://health.utah.gov/epi/hairs/docs/fluFAQ.pdf

Internet 100%

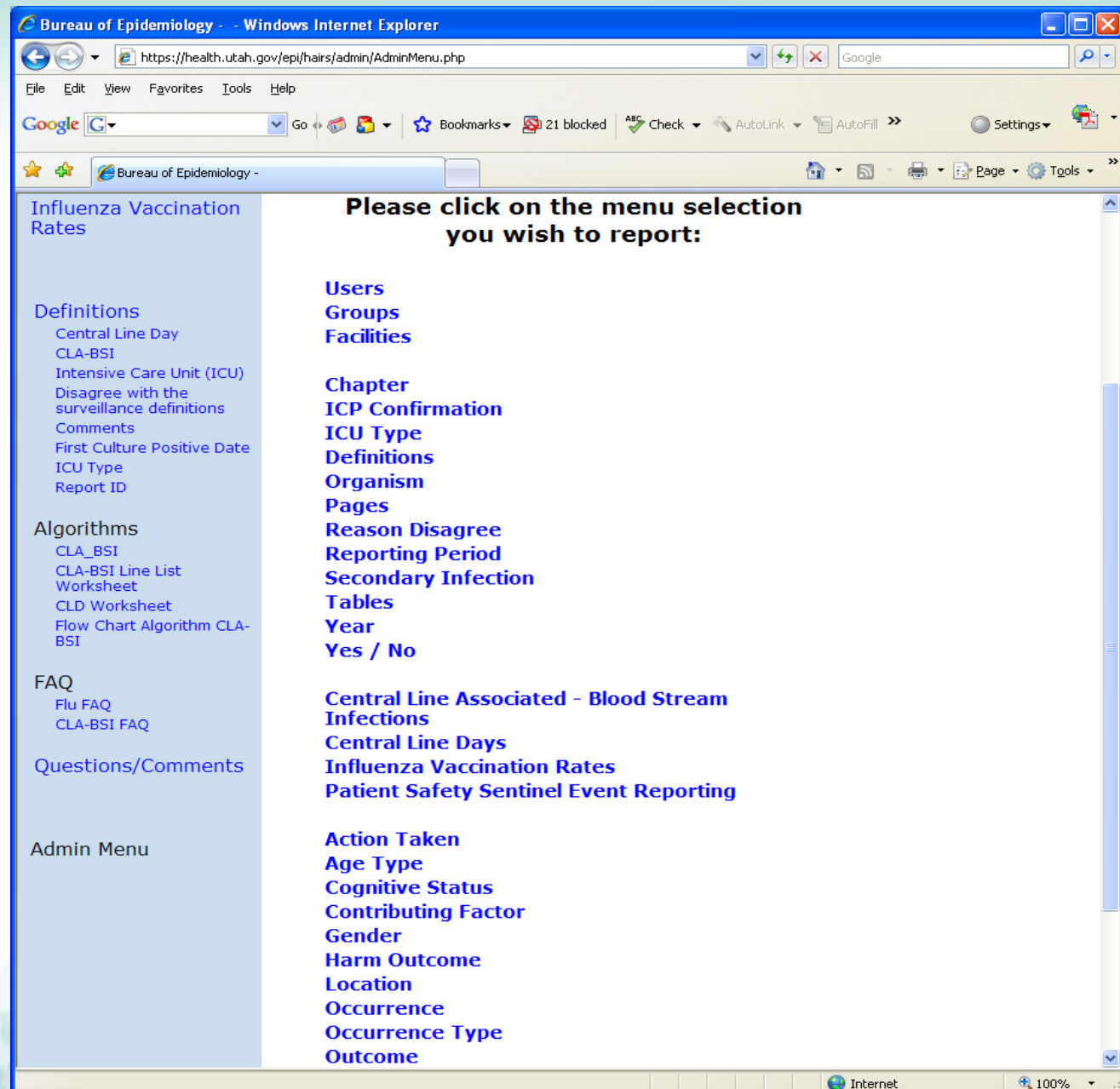
Influenza-Database Matrix

- Least complex of database pages



Administrator-Database View

- Global system administrators have many options to change
 - all drop downs and help/information configuration
- Local admins have minimal edit rights
 - Add users
 - Edit user rights



The screenshot shows a web browser window titled "Bureau of Epidemiology - Windows Internet Explorer". The address bar displays the URL "https://health.utah.gov/epi/hairs/admin/AdminMenu.php". The browser interface includes standard menus (File, Edit, View, Favorites, Tools, Help) and a search bar. The main content area is divided into two columns. The left column contains a sidebar with the following sections: "Influenza Vaccination Rates", "Definitions" (with links like Central Line Day, CLA-BSI, Intensive Care Unit (ICU), Disagree with the surveillance definitions, Comments, First Culture Positive Date, ICU Type, Report ID), "Algorithms" (with links like CLA_BSI, CLA-BSI Line List Worksheet, CLD Worksheet, Flow Chart Algorithm CLA-BSI), "FAQ" (with links like Flu FAQ, CLA-BSI FAQ), "Questions/Comments", and "Admin Menu". The right column displays a message: "Please click on the menu selection you wish to report:" followed by a list of menu items: "Users", "Groups", "Facilities", "Chapter", "ICP Confirmation", "ICU Type", "Definitions", "Organism", "Pages", "Reason Disagree", "Reporting Period", "Secondary Infection", "Tables", "Year", "Yes / No", "Central Line Associated - Blood Stream Infections", "Central Line Days", "Influenza Vaccination Rates", "Patient Safety Sentinel Event Reporting", "Action Taken", "Age Type", "Cognitive Status", "Contributing Factor", "Gender", "Harm Outcome", "Location", "Occurrence", "Occurrence Type", and "Outcome". The status bar at the bottom shows "Internet" and "100%" zoom.

User Database View

- User may access multiple “pages” based on rights granted
- Users may belong to multiple groups

Bureau of Epidemiology - View Users - Windows Internet Explorer

https://health.utah.gov/epi/hairs/admin/AdminUserView.php?admin=y

File Edit View Favorites Tools Help

Google G Go Bookmarks 21 blocked Check Settings

Bureau of Epidemiology - View Users

Utah Facility Reporting System Users

[Add Record](#) [Filter](#) [Need Help?](#) Number of Records: 161

ID	User Name	Group	Write	Page(s)	Admin	Active
124	Brad Howell	SVH	Yes	Influenza Vaccination Rates Patient Safety Sentinel Event Reporting	No	Yes
88	Brenda Bartholomew	GVH	Yes	Influenza Vaccination Rates	No	Yes
79	Brian Child	LRMC	No	Central Line Days Central Line Associated - Blood Stream Infections Influenza Vaccination Rates Patient Safety Sentinel Event Reporting	No	Yes
144	Brian ChildLRMC	LRMC	Yes	Patient Safety Sentinel Event Reporting	No	Yes
101	Britt Brinton	UHosp	Yes	Central Line Days Central Line Associated - Blood Stream Infections	No	Yes
69	Cami Blackham	SVMC	Yes	Influenza Vaccination Rates	No	Yes
141	Carol Lindsay	SLRMC	Yes	Patient Safety Sentinel Event Reporting	No	Yes
110	Carrie Taylor AV	AVH	Yes	Central Line Days Central Line Associated - Blood Stream Infections	Yes	Yes
108	Carrie Taylor IMC	IM	No	Central Line Days Central Line Associated - Blood Stream Infections	Yes	Yes

Site Last Updated on May 13, 2008

[Log Off](#)
[Main Menu](#)
[Central Line Days](#)
[Central Line Associated - Blood Stream Infections](#)
[Influenza Vaccination Rates](#)
[Definitions](#)
 [Central Line Day](#)
 [CLA-BSI](#)
 [Intensive Care Unit \(ICU\)](#)
 [Disagree with the surveillance definitions](#)
 [Comments](#)
 [First Culture Positive Date](#)
 [ICU Type](#)
 [Report ID](#)
[Algorithms](#)
 [CLA_BSI](#)
 [CLA-BSI Line List Worksheet](#)
 [CLD Worksheet](#)
 [Flow Chart Algorithm CLA-BSI](#)
[FAQ](#)
 [Flu FAQ](#)
 [CLA-BSI FAQ](#)
[Questions/Comments](#)

Done Internet 100%

From HAIRS to UFORS

- Director of Patient Safety approached IT personnel to create a system for web reporting of facility Sentinel Events
- The current process has been in place since 2001; 8 general categories are captured with a faxed or emailed qualitative form
- Users group changed the Rule in 2006 and expanded to 32 reportable events consistent with JCAHO and NQF standards
- Change in Rule and expansion drove the need for a web-based reporting system so that staff could spend time analyzing data rather than entering it

UFORS

- Next generation of tools
 - Users can expand function and use of tools based on evolving needs
 - Program staff are system administrators
 - Open-source
 - Keep costs low by not requiring enterprise-wide maintenance
 - Community of practice – user driven

UFORS Software System

- MySql
- PHP
 - Easily changed “pages”
 - Program staff add new reportable events to database without requiring IT staff assistance
 - Program staff add and delete users, passwords, and facilities
- Ability to expand to other initiatives, e.g.:
 - Ambulatory Surgical Center Indicators
 - Perinatal Patient Safety –Quality Improvement measures
- Content experts manage their portion while “sharing” system

Old Version of Reporting SE

- Desktop ACCESS database – one user

The screenshot displays a Microsoft Access application window titled "Event Reporting". The main form is titled "Sentinel Event Reporting Database". It contains several input fields and buttons for recording a sentinel event.

Form Fields:

- Patient's Age: 0 Years, 0 Months, 2 Days
- Gender: Male
- Event ID: 237
- Age Group 1: [Empty]
- AgeCat: [Empty]
- Event Type: Death of a patient
- Facility: [Empty]
- Contacts: [Empty]
- Diagnoses: [Empty]
- Narrative: [Empty]
- Root Cause Analysis: [Empty]
- Report Management: [Empty]
- Type of Facility: [Empty]
- Facility Name: McKay-Dee Hospital Center
- Date Event Occurred: 2/21/2007
- Date Detected as SE: 2/22/2007
- Date Reported to UDOH: [Empty]
- Date RCA Completed: [Empty]
- Location of Event in Facility: Labor and Delivery
- Location Category: Labor & Delivery
- Reported by source outside health care facility? [Unchecked]

Buttons:

- New Event
- Next Event
- Previous Event
- Finished

Status Bar:

Record: 1 of 235

NUM

Patient Safety Sentinel Event- New View

Bureau of Epidemiology - Utah Facility Reporting System - Menu - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Mail Print

Address <https://health.utah.gov/epi/hairs/pub/menu.php> Go Links

Search Web Upgrade your Toolbar Now Mail Help

Utah Department of Health *health • utah • gov* | News | A to Z Index | Health Data | FAQs | Training | Local Health

Utah Facility Reporting System

Welcome to the
Utah Facility Reporting System
for
Healthcare Associated Infection Reporting System
and
Patient Safety Sentinel Event Reporting

Iona Thraen

**Please click on the menu selection
you wish to report:**

[Log Off](#)
[Main Menu](#)
[Patient Safety Sentinel
Event Reporting](#)
[Questions/Comments](#)
[Admin Menu](#)

[Patient Safety Sentinel Event Reporting](#)

Site Last Updated on May 13, 2008

[UDOH Home](#) | [Contact UDOH](#) | [About UDOH](#) | [UDOH A-Z Index](#) | [UDOH Use Disclaimer](#) | [UDOH Privacy Policy](#) | [Utah.gov Accessibility Policy](#)
Copyright © Utah Department of Health ~ State of Utah ~ All rights reserved.

Can't find it? Try the Search Utah.gov feature below.

Google Search Utah. GO

Internet

Bureau of Epidemiology - Add Patient Safety Sentinel Event Reporting - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Mail Print

Address <https://health.utah.gov/epi/hairs/pub/PatientSafetySentinelEvent.php?recordID=0> Go Links

Search Web Upgrade your Toolbar Now Mail Help

Utah Department of Health *health.utah.gov* | News | A to Z Index | Health Data | FAQs | Training | Local Health

Patient Safety Sentinel Event Reporting

Add Patient Safety Sentinel Event Reporting Primary Children's Medical Center

Record ID: 322
Date RCA is Due:

PATIENT INFORMATION	
DOB	<input type="text"/> mm/dd/yyyy
Age / Type	<input type="text"/> <input type="text"/>
Gender	<input type="radio"/> Female <input type="radio"/> Male <input checked="" type="radio"/> Unknown
Date of Admission	<input type="text"/> mm/dd/yyyy
ICD code if known	Principal Admitting Diagnoses
<input type="text"/>	<input type="text"/>
ICD code if known	Principal Discharge Diagnoses
<input type="text"/>	<input type="text"/>

Internet

Patient Safety SE Reporting

Bureau of Epidemiology - Add Patient Safety Sentinel Event Reporting - Microsoft Internet Explorer

Address: <https://health.utah.gov/epi/hairs/pub/PatientSafetySentinelEvent.php?recordID=0>

Search Web Upgrade your Toolbar Now Mail Help

EVENT INFORMATION

Event Date mm/dd/yyyy

Event Time hh:mm (24 hour)

Date of Determination mm/dd/yyyy

Patient Outcome

Patient's Cognitive Status prior to event Unknown

Location of Patient when event occurred Unknown

Type of Occurrence Unknown

Type of OccurrenceType Unknown

ANALYSIS AND CORRECTIVE ACTION

Date RCA Completed: mm/dd/yyyy

Type of Harm/Outcome (Check all that apply)

- ☐ Brain Injury
- ☐ Burn
- ☐ Confinement
- ☐ Death
- ☐ Decline in Condition
- ☐ Decubitus Pressure Ulcer
- ☐ Dislocation
- ☐ Emotional Harm/Upset
- ☐ Fracture

Patient Safety SE Reporting

Bureau of Epidemiology - Add Patient Safety Sentinel Event Reporting - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Mail Print Favorites

Address <https://health.utah.gov/epi/hairs/pub/PatientSafetySentinelEvent.php?recordID=0> Go Links

Contributing Factors (Check all that apply)

- ☐ Availability of Info
- ☐ Care Planning
- ☐ Communication
- ☐ Continuum of Care
- ☐ Device Breakdowns
- ☐ Environ. Safety / Security
- ☐ Equipment - List Equipment used
- ☐ Failure to recognize changes
- ☐ Human Factors
- ☐ Lack of Monitoring
- ☐ Leadership
- ☐ Organization Culture
- ☐ Orientation / Competency / Training
- ☐ Patient Assessment
- ☐ Procedural Compliance
- ☐ Process Breakdowns
- ☐ Staffing
- ☐ Other (please describe)

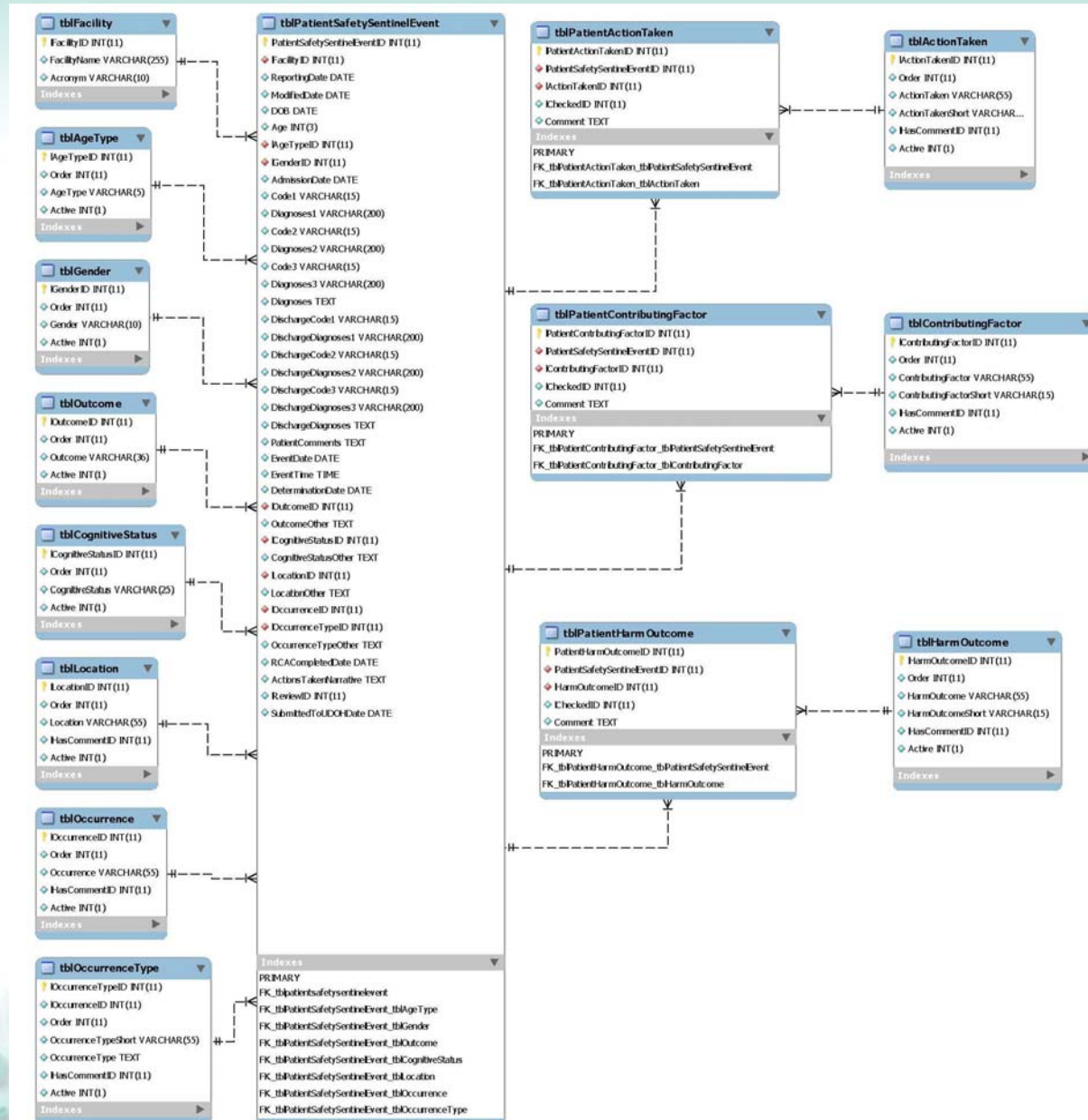
Actions Taken (Check all that apply)

- ☐ Documentation Changes - (please specify)
- ☐ Documentation Changes - Charting Tool
- ☐ Documentation Changes - Checklist
- ☐ Documentation Changes - Form
- ☐ Education
- ☐ Equipment taken out of service
- ☐ Information System Change
- ☐ Policy & Procedure Addition/Revision
- ☐ Staffing Changes
- ☐ Work Flow Process Redesign

Start Novell GroupWise - Mailbox Microsoft PowerPoint - [...] Bureau of Epidemiolo... 3:52 PM

Patient Safety-Database Matrix

- Most complex page
- More options than other pages
- All drop down and check box are saved in database
- Drop downs and check boxes are configured by user
- User can enable add or modify by date
- Fields will display depending on response



Acknowledgements

- COST members
- HAIWG members
- Iona Thraen, Director Patient Safety
- Louise Eutropius, UUMC Infection Control
- Melissa Stevens Dimond, CDEP Program Manager
- Richard Kurzban, Database Integration Manager
- Rouett Abouzelof, PCMC Infection Control
- SE Users Group
- Wu Xu, Director, Office of Public Health Informatics

Prevent Protect Promote Prevent Protect Promote Prevent P
ent Protect Promote Prevent Protect Promote Prevent Protec
Prevent Protect Promote Prevent Protect Promote Prevent P

Questions?

